Appendix G

Biographical Sketches of Principal Investigator and Members of the Advisory Panel

PRINCIPAL INVESTIGATOR

THOMAS E. MCKONE is a staff scientist at the Ernest Orlando Lawrence Berkeley National Laboratory and adjunct professor at the University of California, Berkeley, School of Public Health. He is currently serving on a number of National Research Council (NRC) committees of the Board on Environmental Studies and Toxicology, including the Committee on Toxicology and the Committee on Risk Assessment for Radon in Drinking Water. Dr. McKone is also president of the International Society of Exposure Analysis and a member of the Environmental Protectection Agency's (EPA's) Science Advisory Board. He is responsible for the development of CalTOX, a model used by the California Department of Toxic Substances Control to conduct health-risk assessments of contaminated soils and the contamination of adjacent air, surface water, sediments, and groundwater.

ADVISORY PANEL

WYETT H. COLCLASURE II received his M.S. in chemistry from the University of Illinois and is currently chairman of the Environmental Technologies Group, Inc. During his military service, Col. Colclasure (ret.) was project manager for Nuclear, Biological, and Chemical (NBC) Defense Systems of the Chemical and Biological Defense Command, Aberdeen Proving Ground; director of materiel testing, Dugway Proving Ground; and chief of the Chemical Operations Division, HQ Army Materiel Command.

He has conducted analyses of environmental studies, led a field and laboratory testing organization, prepared U.S. Department of Defense (DoD) reports for Congress, and directed the writing of concepts guiding the development of new chemical defense doctrine and equipment.

MARGARET (PEGGY) L. JENKINS, the manager of the Indoor Air Quality and Personal Exposure Assessment Program at the California Air Resources Board, received her M.S. in ecology from the University of California, Davis. Ms. Jenkins has pioneered studies of human time-activity patterns as they relate to pollutant exposures and has extensive experience in exposure assessment methods and monitoring. She was a member of the Peer Review Panel for the Human Exposure Research Program for the National Exposure Research Laboratory, EPA, and is currently a representative to the California Indoor Air Quality Interagency Working Group. She has also served on a variety of other peer review and advisory panels. Ms. Jenkins has received the California Environmental Protection Agency Customer Service Award and the German Marshall Fund Travel Award. Her professional affiliations include the Air and Waste Management Association, the American Public Health Association, and the International Society of Exposure Analysis, in which she holds the office of secretary.

TREVOR O. JONES, a member of the National Academy of Engineering (NAE), is chairman and chief executive officer (CEO) of BIOMEC, Inc., a biomedical engineering device company, and of International Development Corporation, a private management consulting company; he was past chairman of the board of Echlin, Incorporated, a supplier of automotive components primarily to the aftermarket; and chairman, president, and CEO (retired) of Libbey-Owens-Ford Co., a major manufacturer of glass for use in automobiles and construction. Previously, he was an officer of TRW, Inc., serving in various capacities in the company's Automotive Worldwide Sector, including vice president of engineering and vice president of the Transportation Electronics Group. Prior to joining TRW, he was employed by General Motors in many aerospace and automotive executive positions, including director of General Motors Proving Grounds; director of the Delco Electronics Division, Automotive Electronic and Safety Systems; and director of General Motors' Advanced Product Engineering Group. Mr. Jones is a life fellow of the American Institute of Electrical and Electronics Engineers and has been cited for "leadership in the application of electronics to the automobile." He is also a fellow of the American Society of Automotive Engineers, a fellow of the British Institution of Electrical Engineers, a registered professional engineer in Wisconsin, and a chartered engineer in the United Kingdom.

He holds many patents and has lectured and written on automotive safety and electronics. He is a former member of the NRC Commission on Engineering and Technical Systems. Mr. Jones has served on several other NRC study committees, including the Committee for a Strategic Transportation Research Study on Highway Safety, and chaired the NAE Steering Committee on the Impact of Products Liability Law on Innovation. He holds an HNC (higher national certificate) in electrical engineering from Aston Technical College and an ONC (ordinary national certificate) in mechanical engineering from Liverpool Technical College.

MICHAEL D. LEBOWITZ graduated from the University of Washington with a Ph.C. in preventive medicine and a Ph.D. in epidemiology and international health and environmental health sciences. He is a professor at the University of Arizona in the section of Pulmonary and Critical Care Medicine and a professor and director of the Epidemiology Unit of the Arizona Prevention Center. Dr. Lebowitz's research interests include the epidemiology of pulmonary and other chronic diseases; air pollution health effects; and respiratory response to particulate matter, ozone, indoor pollutants, and allergens. He has received many honors and awards, including the Arizona Clean Air Health Award, was elected fellow of the American College of Epidemiology, an academician of the International Academy of Indoor Air Science, and senior international fellow of the Italian National Research Council. He is an associate editor for the *Journal of Exposure Analysis and Environmental Epidemiology* and *Toxicology and Industrial Health* and a member of the editorial boards of the *American Journal of Respiratory and Critical Care Medicine* and *Archives of Environmental Health.*

KEITH MCDONALD is president of Sat Tech Systems and technical director for Navtech Seminars, Inc. Previously, Mr. McDonald directed the Federal Aviation Administration's Aeronautical Satellite Division and managed the satellite applications and technology program. He was also the scientific director of the DoD's Navigation Satellite Program during the formative stages of the global positioning system (GPS). Mr. McDonald has been active in the Radio Technical Commission for Aeronautics (RTCA), preparing guidelines for the use of satellite systems in aviation, and has received the RTCA Citation for Outstanding Service. He has published more than 90 technical papers. He received the Institute of Navigation's (ION) Norman P. Hays Award for outstanding contributions to the advancement of navigation and was president of ION in 1990–1991. He is currently president of the International Association of Institutes of Navigation. Mr. McDonald was a member of the NRC Committee on the Future of the Global Positioning System.

ROBERT E. SHOPE received his M.D. from Cornell University and is currently a professor of pathology, microbiology and immunology, and preventive medicine and community health at The University of Texas at Galveston. He is also codirector of the World Health Organization World Reference Center for arboviruses, which characterizes viruses transmitted to people and domestic animals and researches their epidemiology. Dr. Shope has worked in the areas of emerging infectious diseases and the epidemiology of arbovirus and rabies virus infections. He was also a member of the Committee on Research and Development Needs for Improved Civilian Medical Response to Chemical or Biological Terrorism Incidents. Dr. Shope is the author of more than 70 publications.

ROBERT C. SPEAR is the founding and current director of the Center for Occupational and Environmental Health at the University of California, Berkeley. He is also a professor in the Environmental Health Sciences Division of the School of Public Health and director of the National Institute of Occupational Safety and Health Educational Resource Center. His doctoral work at Cambridge University involved the modeling and analysis of dynamic systems, an interest that he brought to environmental health sciences and which has conditioned much of his later work in exposure assessment and the modeling and analysis of environmental and occupational health problems. Dr. Spear has also been interested in statistical issues relating to the assessment of hazardous exposures in occupational settings, and his work is now focused on the characterization of multiple exposures using multivariate statistical techniques. He is a member of the American Society of Mechanical Engineers, the American Industrial Hygienist Association, and the American Public Health Association.

PAUL SWITZER is a professor in the Department of Statistics and the School of Earth Sciences at Stanford University. He graduated from Harvard University with a Ph.D. in statistics. Dr. Switzer's research interests are in the development of statistical tools for the environmental sciences, and his recent research has focused on the interpretation of environmental monitoring data, the design of monitoring networks, the detection of time trends in environmental and climatic parameters, the modeling of human exposure to pollutants, and error estimations for spatial mapping. He has served on the Research Proposal Review Committee for the National Science Foundation, the Board of Directors for the Societal Institute of the Mathematical Sciences, the EPA National Advisory Council on Environmental Policy and Technology, and the Committee on Global and Environmental Change for the American Geophysical

Union. He is a fellow in the International Statistical Institute, the American Statistical Association, and the Institute of Mathematical Statistics.

DETLOF VON WINTERFELDT is a professor of public policy and management at the University of Southern California (USC) and director of the Institute for Civic Enterprise. He is also the president of Decision Insights, Inc., a management consulting firm specializing in decision and risk analysis. Dr. von Winterfeldt, who graduated from the University of Michigan with a Ph.D. in mathematical psychology, has research interests in the foundation and practice of decision and risk analysis as applied to technology and environmental management problems. He is the co-author of two books and author or co-author of more than 100 articles and reports on these topics. He has served as chairman of USC's Systems Science Department and chairman of the Research Center at the Institute of Safety and Systems Management. He has also served on several committees and panels, including the National Science Foundation's Advisory Panel for Decision and Risk Management Science Program and the NRC Committee on Risk Perception and Communication.

CHARLES JOHN WESCHLER received his Ph.D. in chemistry from the University of Chicago. Since completing his postdoctoral studies at Northwestern University, Dr. Weschler has been a research scientist at Bell Laboratories and Bell Communications Research (Bellcore) and is a designated distinguished member of professional staff. His specialties include indoor air chemistry, indoor/outdoor relationships for selected pollutants, and the impact of ambient pollutants on electronic equipment. He is a member of the American Association for Aerosol Research, the American Society for Testing and Materials, and the American Chemical Society. In addition, he is a member of the EPA Science Advisory Board. He was a member of the NRC Committee to Review the Structure and Performance of the Health Effects Institute and the Committee on Advances in Assessing Human Exposure to Airborne Pollutants. Dr. Weschler is the author or co-author of more than 75 peer-reviewed publications.